

Title (en)

METHOD OF PRODUCING AND PURIFYING ENZYMES

Title (de)

VERFAHREN ZUR HERSTELLUNG UND AUFREINIGUNG VON ENZYMEN

Title (fr)

PROCEDE DE PRODUCTION D'ENZYMES PURIFIEES

Publication

EP 0840784 B1 20030917 (EN)

Application

EP 96903565 A 19960122

Priority

- US 9600728 W 19960122
- US 37869895 A 19950126

Abstract (en)

[origin: WO9623063A1] A method of producing and purifying an enzyme which comprises selecting a spore forming host organism, preparing a genetic construct consisting of a DNA sequence encoding the desired enzyme and a DNA sequence directing synthesis of the desired enzyme during sporulation, inserting the genetic construct into the host organism, culturing the transformed host organism under sporulating conditions to obtain host organism spores with the enzyme integrally associated to the spores, and then treating the host organism and enzyme combination to remove any impurities, if necessary. The free enzyme can be obtained by cleaving the connection between the host organism and the enzyme. The combination of the enzyme and host organism is both a stabilized and an immobilized enzyme preparation.

IPC 1-7

C12N 9/38; **C12N 9/00**; **C12N 11/00**; **C12P 21/04**

IPC 8 full level

C12N 15/09 (2006.01); **C07K 14/32** (2006.01); **C12N 1/21** (2006.01); **C12N 9/00** (2006.01); **C12N 9/38** (2006.01); **C12N 11/02** (2006.01); **C12N 15/62** (2006.01); **C12N 15/75** (2006.01); **C12P 21/04** (2006.01); **C12R 1/125** (2006.01)

CPC (source: EP US)

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Citation (examination)

- CREIGHTON T.E.: "Proteins", 1993, FREEMAN, NEW YORK
- BRIZA ET AL: "Isolation of two developmentally regulated genes involved in spore wall maturation in *Sacharomyces cerevisiae*.", GENES DEV, vol. 4, 1990, pages 1775 - 1789
- BRIZA ET AL: "The sporulation-specific enzymes encoded by the DIT1 and DIT2 genes catalyze a two-step reaction leading to a soluble LL-dityrosine-containing precursor of the yeast spore wall.", PNAS, vol. 91, 1994, pages 4524 - 4528

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